

EXECUTIVE SUMMARY
Waste Rock Disposal Site - Permit Revision

Prepared October 2, 2001

Mine Name: Devil's Slide Quarry

Operator: Holnam, Incorporated

6055 East Croydon Road

Auxiliary Route #3

Morgan, Utah 84050

Telephone: (801) 829-2153

Contact Person: Ken George

I.D. No: M/029/001

County: Morgan

New/Existing: Existing

Mineral Ownership: Private & BLM

Surface Ownership: Private & BLM

Lease No.(s): N/A

Permit Term: life of mine

Life of Mine: 20+ years

Legal Description: Portions of the Southeast 1/4 Section 13, Township 4 North, Range 3 East; portions of the Southwest 1/4 Section 18; and portions of the Northwest 1/4 Northwest 1/4 of Section 19, Township 4 North, Range 4 East SLBM, Morgan County, Utah

Mineral(s) to be Mined: Limestone

Acres to be Disturbed: 184.5 acres for waste rock disposal area only (this permit revision).

Present Land Use: Wildlife and Grazing

Postmining Land Use: Wildlife and Grazing

Variances from Reclamation Standards (Rule R613) Granted: No variances requested for this permit revision.

Soils:

Soil Description: Soils in the waste rock disposal area include gravelly loam to fine silty loam soils. Soil series include the St. Marys Series, Hoskin Series, Henefer Series and Kilfoil Series. Soil depth ranges from 7 to 20 inches.

pH: 6.3 - 7.8

Special Handling Problems: None

Hydrology:

Ground Water Description: The depth to groundwater has not been determined for this site. This area is considered alpine and, therefore, the localized groundwater table will be higher in the late winter / early spring and low to non-existent in the summer and fall. It is anticipated that groundwater will follow the natural flow lines of the Quarry Hollow and Cottonwood Canyon topography. Groundwater is expected to be absent at higher elevations (unless perched), and flow toward the naturally occurring drainage channels at lower elevations.

Surface Water Description: No springs have been identified in the quarry area. All ephemeral drainage is captured, routed and treated by the Lower Desilting and the West Desilting basins at the base of all waste rock disposal areas. An 800 foot culvert will be used to route disturbed and undisturbed drainage to the Lower Desilting basin through ditch segment 2 draining Quarry Hollow. All structures will meet the requirements of being stable with respect to actual or reasonably expected water flow avoiding any future damage to the

hydrologic system.

Water Monitoring Plan: There is an existing EPA Discharge Permit #000159 for any surface water discharge.

Ecology:

Vegetation Type(s); Dominant Species: Mountain Brush vegetation community. Dominant Species include sagebrush, oakbrush, bluebunch wheatgrass, bitterbrush, snowberry, fescue, basin wildrye.

Percent Surrounding Vegetative Cover: 40% - 50%. A vegetation survey of the area to be affected is being completed during the 2001 growing season. Results of this survey will be incorporated into the plan once it is completed.

Wildlife Concerns: Deer and elk winter range.

Surface Facilities: None associated with the waste rock disposal area.

Mining and Reclamation Plan Summary: . .

During Operations:

The waste dump will be constructed in stages so that when the first stage is completed, reclamation can begin while subsequent stages are being developed. The operator will pre-strip and stockpile available topsoil from the first stage prior to placement of waste rock material. Topsoil from subsequent stages will be stripped and respread on the previous stage. Adequate drainage control, using best management practices, will be constructed and maintained during operations. The area is under control of the operator and appropriate warning signs will be placed in areas of public access.

After Operations:

All disturbed areas will be shaped to blend into surrounding terrain, have topsoil replaced and seeded with the approved seed mix. Ten inches of topsoil will be replaced over all disturbed areas. The use of fertilizer or other soil amendments is not anticipated; however, the operator will test soils prior to resspreading and add appropriate amendments if needed.

Surety:

Amount: \$?

Form: ?

Renewable Term: 5 years (2006 dollars)